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James M. Lanzafame
Project Coordinator
The Doe Run Company
881 Main Street
Herculaneum, MO 63048

RE: Administrative Order on Consent for the Herculaneum Lead Smelter Site
Docket Number RCRA-7-2000-0018, CERCLA -7-2000-0029
Requirements for Additional Surface Soil Sampling and Analysis

Dear Mr. Lanzafame:

Last fall, EPA requested, pursuant to the Additional Work provision of the above-referenced Order, that Doe Run conduct surface soil sampling and analysis on an expedited basis at a number of residential yards in the vicinity of the Doe Run smelter. Doe Run agreed to perform the sampling and analysis within the time frames requested by EPA. Doe Run subsequently completed the requested work, using an EPA-approved Sampling and Analysis Plan/Quality Assurance Project Plan (SAP/QAPP). Soils in approximately 530 residential yards were sampled and analyzed in that phase of the work. EPA appreciates Doe Run's cooperation in performing that work in a timely and adequate manner.

The Order requires Doe Run to perform a significant amount of surface soil sampling and analysis beyond what was done last fall. Specifically, the Order requires Doe Run to characterize surface soil contamination out to a 1-mile radius from the smelter within six months of EPA and MDNR approval of the SAP/QAPP (see Statement of Work, Appendix A, Paragraph I.1.A.c.). While the soil sampling work performed by Doe Run last fall covered a significant portion of the area out to a one-mile radius from the smelter, numerous properties within that one-mile radius have yet to be sampled.

With this letter, EPA is clarifying that the previously approved SAP/QAPP for surface soil characterization, which was used by Doe Run during surface soil characterization work last fall, shall continue to be used by Doe Run for future residential soil sampling and analysis work under the Order. This letter triggers the beginning of the six-month time frame for Doe Run to complete surface soil characterization out to a one-mile radius from the smelter.

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The Order also provides that if the soil sampling results within a one-mile radius of the smelter indicate that surface soil contamination exists beyond the one-mile radius, EPA or MDNR may notify Doe Run the characterization area needs to be expanded. The Order provides that the specific criteria for determining whether the characterization area needs to be expanded is whether surface soil concentrations at the 1-mile radius distance exceed 400 parts per million. Some of the soil sampling conducted by Doe Run last fall was at locations that are a mile away from the smelter, and soil concentrations at those locations exceed 400 parts per million. Accordingly, EPA is hereby notifying Doe Run that characterization beyond 1 mile is necessary. Pursuant to the Order, Doe Run is now required to determine the extent of surface soil contamination within 1.5 miles of the smelter within six months of receipt of this letter.

Due to the documented adverse impacts to public health from the smelter operations, EPA encourages you to complete this activity sooner than the required time period in the Administrative Order. EPA asks that you contact us to discuss your anticipated schedule for completion of this next phase of additional surface soil characterization.

With respect to sampling and analysis activities required by the Order other than surface soil characterization, EPA and MDNR continue to review the Sampling and Analysis Plan and Quality Assurance Project Plan (SAP) previously submitted by Doe Run and will provide comments on these plans in the near future.

Please contact me at 913-551-7637 if you have any questions concerning this matter.

Sincerely,

Anthony Petruska
Project Manager
Air, RCRA, and Toxics Division

cc: Dave Mosby
Missouri Department of Natural Resources
Lou Maricheau
The Doe Run Company

bcc: Bruce Morrison, FFSE
Dave Cozad, CNSL